504121066 12/02/2016

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4167736

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BRETT J. SITTER	10/24/2016
MARC D. RADCLIFFE	10/24/2016
THOMAS R. HOFFEND JR.	11/30/2016
ANDREW J. OUDERKIRK	10/24/2016
DANIEL W. HENNEN	10/25/2016
LAN H. LIU	10/28/2016

### **RECEIVING PARTY DATA**

Name:	3M INNOVATIVE PROPERTIES COMPANY
Street Address:	P.O. BOX 33427
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55133-3427

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15315947

#### **CORRESPONDENCE DATA**

Fax Number: (651)736-3833

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 651-733-1500 lengel@mmm.com Email:

3M INNOVATIVE PROPERTIES COMPANY **Correspondent Name:** 

Address Line 1: PO BOX 33427

Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	75497US005
NAME OF SUBMITTER:	LINDA ENGEL
SIGNATURE:	/Linda Engel/
DATE SIGNED:	12/02/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**PATENT** REEL: 040497 FRAME: 0753

504121066

## **Total Attachments: 6**

source=executedDeclarationAssignment\_75497US005#page1.tif source=executedDeclarationAssignment\_75497US005#page2.tif source=executedDeclarationAssignment\_75497US005#page3.tif source=executedDeclarationAssignment\_75497US005#page4.tif source=executedDeclarationAssignment\_75497US005#page5.tif source=executedDeclarationAssignment\_75497US005#page6.tif

## DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

inventor's Signature:

Case No:

75497US005

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

application and for which a patent is sought on the invention entitled:	
OPTICAL STACKS FOR SPARKL	E REDUCTION
The specification of which:	
is attached hereto:	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on	PCT/US2015/033884
The above-identified application was made or authorized to be made i	bv me.
I hereby acknowledge that any willful false statement made in this decline or imprisonment of not more than 5 years, or both.	•
In addition, for good and valuable consideration, receipt of which is act and do hereby assign and transfer unto the 3M INNOVATIVE PROPE 3M COMPANY, and a corporation of Delaware, having its principal off assigns, the entire right, title, and interest in and to the said invention a continuation (in whole or in part) of said application, and in and to any by me or made jointly with others (provided any such improvement is a termination of, my employment with 3M COMPANY and any of its exist all Letters Patent, reexaminations, reissues, or extensions thereof, of thereto (including the right to apply for Letters Patent, Utility Models, of own name and to claim any priority rights for such foreign applications international conventions, treaties, or otherwise), which have been or continuation (in whole or in part), renewal, reexamination, reissue, or opart upon the said invention or improvements thereon, to be held and have been by me had this assignment and transfer not been made;	RTIES COMPANY, a wholly-owned subsidiary of fice at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made made during, or within one year after the sting or future subsidiaries), and in and to any and the United States of America and countries foreign or Inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, other or further application based in whole or in
i do further agree for myself and for my heirs, executors, and administ consideration any further applications, assignments, and documents, a that may be deemed necessary by said Company, its successors, ass and interest as aforesaid and to obtain or maintain Letters Patent, Utili countries; and	and to perform such other acts as I lawfully may, signs, and nominees, fully to secure its right, title.
I do hereby authorize and request the Commissioner of Patents to issi granted upon any of the said applications, to said 3M Innovative Prope tille, and interest therein.	ue any and all Letters Patent which may be arties Company, as the assignee of the entire righ
Legal Name of Inventor:	
Brett J. Sitter	

Date:

10-24-16

# DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN

PATENT APPLICATION (37 CFR § 1.83)

Case No:

75497US005

As a below name	d inventor, I believe I am :	an original inventor or a	n original joint invento	r of a claimed invention in	the
application and fo	r which a patent is sought	on the invention entitled	<b>X</b>		

application and for w	hich a patent is sought on the invention entitled:	
	OPTICAL STACKS FOR SPARK	LE REDUCTION
The specification of	which:	
is attached here	eto:	
was filed on as United State	s Application No.	
is identified as I flied on	PCT International Application No. June 3, 2015	PCT/US2015/033884
The above-identified	application was made or authorized to be made	by me.
In addition, for good and do hereby assig 3M COMPANY, and assigns, the entire recontinuation (in who by me or made joint! termination of, my erall Letters Patent, rethereto (including the	n and transfer unto the 3M INNOVATIVE PROPI a corporation of Delaware, having its principal of ght, title, and interest in and to the said invention le or in part) of said application, and in and to an y with others (provided any such improvement is apployment with 3M COMPANY and any of its ex examinations, reissues, or extensions thereof, of a right to apply for Letters Patent, Utility Models,	cknowledged, I have agreed to assign and transfer ERTIES COMPANY, a wholly-owned subsidiary of fice at Saint Paul, Minnesota, its successors and and application, and in and to any division or y and all improvements in the said invention made made during, or within one year after the sting or future subsidiaries), and in and to any and the United States of America and countries foreign or Inventors' Certificates in foreign countries in its
international conven continuation (in who part upon the said in have been by me ha	aim any priority rights for such foreign application tions, freaties, or otherwise), which have been or le or in part), renewal, reexamination, reissue, or vention or improvements thereon, to be held and dithis assignment and transfer not been made:	may be granted thereon or on any divisional, other or further application based in whole or in enjoyed as fully and exclusively as they would
consideration any tu that may be deemed	necessary by said Company, its successors, as	and to perform such other acts as I lawfully may, and to perform such other acts as I lawfully may, signs, and nominees, fully to secure its right, litle, lity Models, or Inventors' Certificates in any and all
	· · · · · · · · · · · · · · · · · · ·	sue any and all Letters Patent which may be lerties Company, as the assignee of the entire right
Legal Name of Inve		
Inventor's Signature	and the second	10/24/2016

DECLARATION AND ASSIGNMENT,
FOR UTILITY OR DESIGN
PATENT APPLICATION (37 CFR § 1.63)

Case No:

75497US005

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled.

700	and the same of	
	OPTICAL STACKS FOR SPARKLE	REDUCTION
The	specification of which	
	is attached hereto;	
	was filed on as United States Application No.	
$\boxtimes$	is identified as PCT International Application No. filed on June 3, 2015	PCT/U52015/033884

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both

In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made:

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or inventors' Certificates in any and all countries, and

I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Legal Name of Inventor: Thomas R. Hoffend, Jr.	······································
Investoración de la companya della companya de la companya della c	Date: // ( _ / _ / _ / _ / _ / _ / _ / _ / _
Mond May	11/30/2016

## DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Andrew J. Ouderkirk

Inventor's Signature:

Case No:

75497US005

	OPTICAL STACKS FOR SPA	ARKLE REDUCTION
The specification of v	which:	
is attached here	eto;	
was filed on as United State	s Application No.	
is identified as f	PCT International Application No. June 3, 2015	PCT/US2015/033884
The above-identified	application was made or authorized to be r	nade by me.
fine or imprisonment	of not more than 5 years, or both.	is declaration is punishable under 18 U.S.C. 1001 by
and do hereby assignamed COMPANY, and assigns, the entire rigontinuation (in whole by me or made jointly termination of, my erall Letters Patent, recthereto (including the own name and to clainternational convent continuation (in whole part upon the said in	n and transfer unto the 3M INNOVATIVE Plate corporation of Delaware, having its principle, title, and interest in and to the said inverse or in part) of said application, and in and it with others (provided any such improvement with 3M COMPANY and any of it examinations, reissues, or extensions there or right to apply for Letters Patent, Utility Modified im any priority rights for such foreign applications, treaties, or otherwise), which have be or in part), renewal, reexamination, reissues.	is acknowledged, I have agreed to assign and transfer ROPERTIES COMPANY, a wholly-owned subsidiary of pal office at Saint Paul, Minnesota, its successors and intion and application, and in and to any division or to any and all improvements in the said invention made ent is made during, or within one year after the its existing or future subsidiaries), and in and to any and of, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under en or may be granted thereon or on any divisional, ite, or other or further application based in whole or in d and enjoyed as fully and exclusively as they would ide;
and do hereby assignam COMPANY, and assigns, the entire rigontinuation (in whole by me or made jointly termination of, my erall Letters Patent, recthereto (including the own name and to clainternational convent continuation (in whole part upon the said in have been by me hard to further agree for consideration any furthat may be deemed.	n and transfer unto the 3M INNOVATIVE Place corporation of Delaware, having its principht, title, and interest in and to the said inverse or in part) of said application, and in and to with others (provided any such improvement of the provided any such improvement with 3M COMPANY and any of it examinations, reissues, or extensions there is right to apply for Letters Patent, Utility Modified in any priority rights for such foreign applications, treaties, or otherwise), which have been or in part), renewal, reexamination, reissuention or improvements thereon, to be held this assignment and transfer not been matches and for my heirs, executors, and adotted the applications, assignments, and documnecessary by said Company, its successory	ROPERTIES COMPANY, a wholly-owned subsidiary of pal office at Saint Paul, Minnesota, its successors and ntion and application, and in and to any division or to any and all improvements in the said invention made ent is made during, or within one year after the its existing or future subsidiaries), and in and to any and of, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under en or may be granted thereon or on any divisional, ite, or other or further application based in whole or in d and enjoyed as fully and exclusively as they would

Date:

10/24/2016

## DECLARATION AND ASSIGNMENT. FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

75497US005

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled: OPTICAL STACKS FOR SPARKLE REDUCTION The specification of which: is attached hereto: was filed on as United States Application No. is identified as PCT international Application No. PCT/US2015/033884 June 3, 2015 The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional. continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made: I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein. Legal Name of Inventor: Daniel W. Hennen Inventor's Signature: Date: 12/25,2016

## DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

75497US005

As a below named inventor, I believe I am an original inve application and for which a patent is sought on the invention	entor or an original joint inventor of a claimed invention in the on entitled:
OPTICAL STACKS FOR SPARKLE REDUCTION	
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on June 3, 2015	PCT/US2015/033884
The above-identified application was made or authorized t	o be made by me.
fine or imprisonment of not more than 5 years, or both.  In addition, for good and valuable consideration, receipt of and do hereby assign and transfer unto the 3M INNOVATI 3M COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the said continuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such impritermination of, my employment with 3M COMPANY and at all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utilit own name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which ha continuation (in whole or in part), renewal, reexamination, part upon the said invention or improvements thereon, to be have been by me had this assignment and transfer not because.	and to any and all improvements in the said invention made overnent is made during, or within one year after the my of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign by Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under we been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in be held and enjoyed as fully and exclusively as they would en made;
that may be deemed necessary by said Company its succ	and administrators, to execute and deliver without further locuments, and to perform such other acts as I lawfully may, sessors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize and request the Commissioner of Pagranted upon any of the said applications, to said 3M Innotifie, and interest therein.	atents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire righ
Legal Name of Inventor:	
Lan H. Liu	
Inventor's Signature:	Date:
	10/28/2016

PATENT REEL: 040497 FRAME: 0760

**RECORDED: 12/02/2016**